

FIG.1

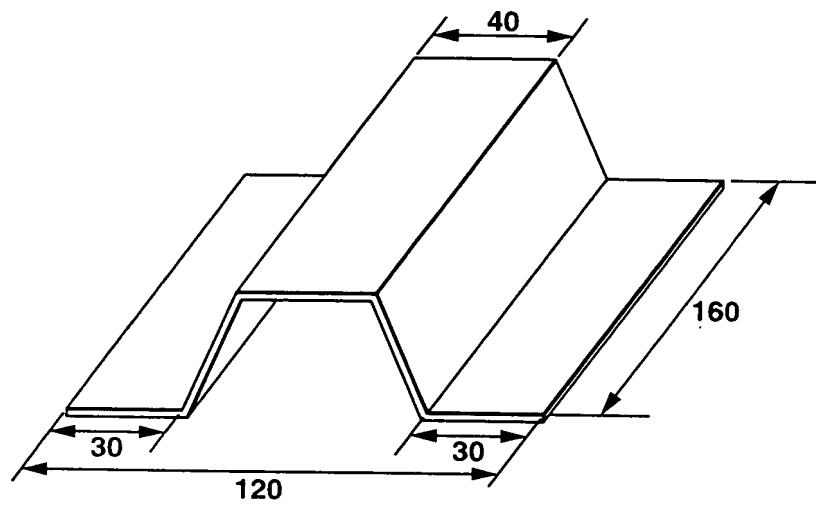


FIG.2A

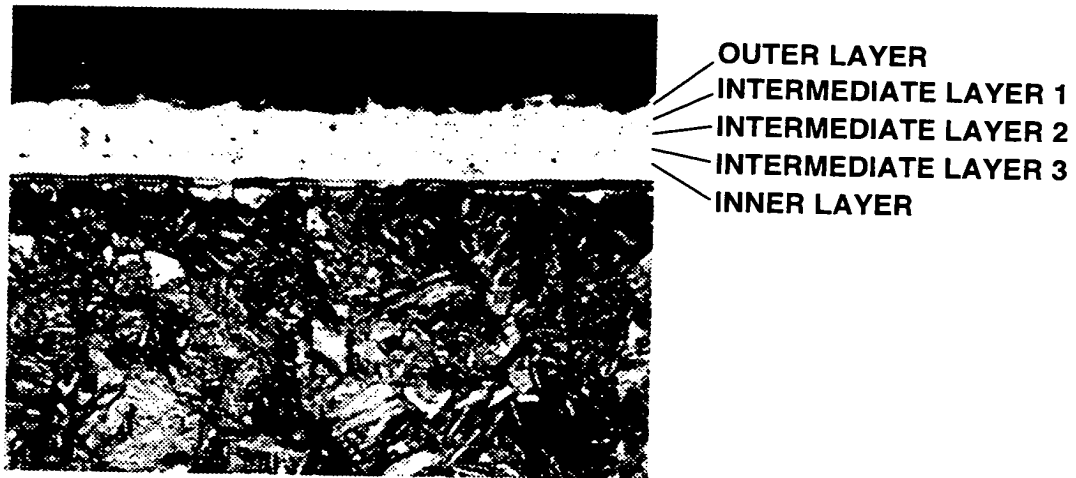


FIG.2B

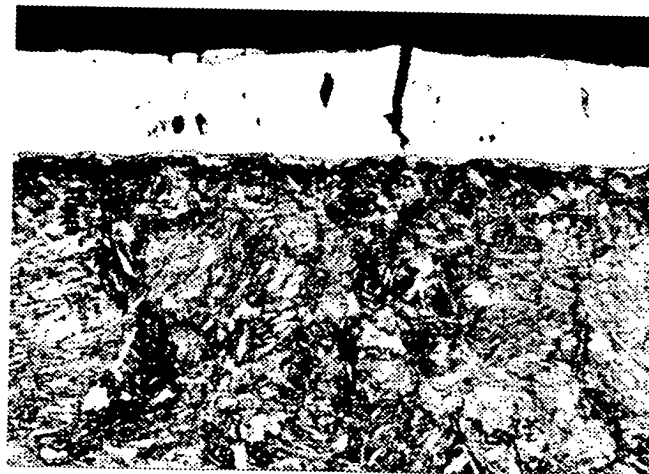


FIG.3

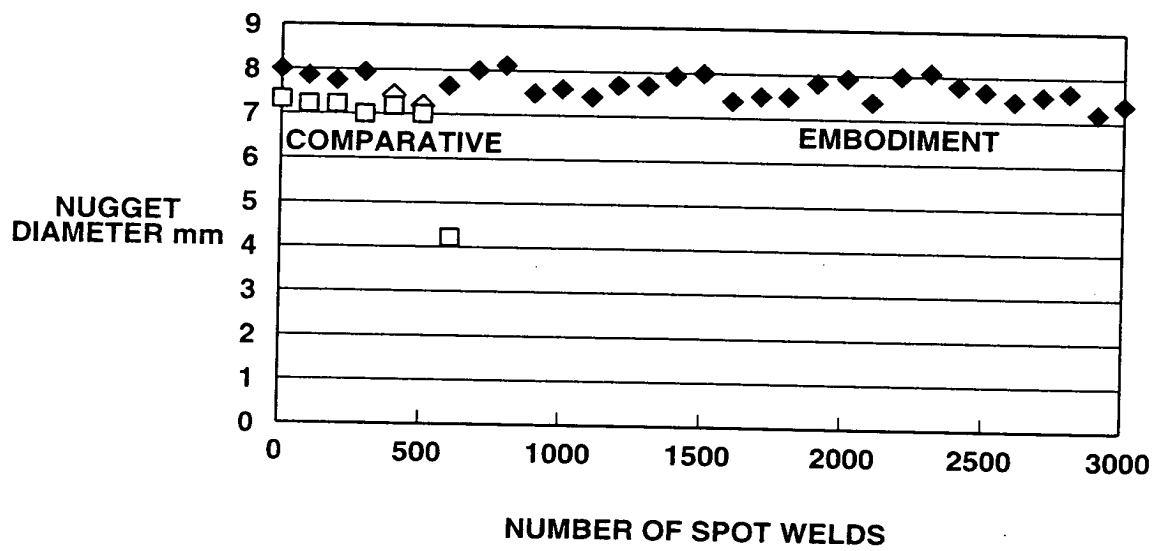


TABLE 1

No.	PRODUCTION		COATING LAYER STRUCTURE & COMPOSITION (%)								STEEL BASE HARDNESS (Hv)	COATING LAYER HARDNESS (Hv)			OXIDE WEIGHT (mg/dm ²)	FORMABILITY	CORROSION RESISTANCE	WELDABILITY
	RAISED TEMPERATURE (°C)	HOLD TIME (min.)	COMPONENT & HARDNESS	INNER	INTER 1	INTER 2	INTER 3	OUTER	SOFTTEST AVERAGE	SOFTER RANGE (%)								
1	920	3	Al	7.7	31.0	48.4	31.6	54.8	450	310	415	51	300	○	○			
			Si	2.0	3.9	1.2	5.7	0.8										
			Fe	89.6	65.9	50.1	62.0	44.5										
			Hv	310	360	750	700	800										
2	900	2	Al	27.2	48.4	31.6		54.9	415	380	455	22	275	○	○			
			Si	4.1	1.2	5.7	—	0.8										
			Fe	67.2	50.1	61.9		44.1										
			Hv	380	760	720	—	810										
3	930	10	Al	9.4				11.6	400	305	385	78	550	○	×			
			Si	1.3	—	—	—	1.8										
			Fe	88.4				85.7										
			Hv	305	—	—	—	410										
4	950	5	Al	6.0	27.8	51.9	30.4	47.4	440	280	400	59	385	○	○			
			Si	1.5	4.3	0.6	5.3	2.2										
			Fe	90.7	66.7	46.8	63.1	49.8										
			Hv	280	340	720	690	800										
5	900	4	Al	3.2	54.5	33.4		54.5	440	300	410	56	335	○	○			
			Si	0.4	2.5	15.3	—	6.8										
			Fe	94.3	42.7	51.4		38.4										
			Hv	300	740	700	—	810										

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FIG.5

TABLE 2

HEATING TEMPERATURE (°C)	HOLDING TIME (min.)	OXIDE WEIGHT (mg/dm ²)	ADHESION	
			PIN HOLE	CROSS CUT TEST
950	3	290	NONE	○
	5	385	NONE	○
	10	540	PRODUCED	×
	15	690	PRODUCED	×
	20	760	PRODUCED	×
	25	790	PRODUCED	×
	30	805	PRODUCED	×